

SBND is a LAr TPC which will operate in the Booster Neutrino Beam at Fermilab, at a distance of 110m from the target. The 112 tonne active volume detector will make precision measurements of neutrino interaction cross sections in argon, as well as forming the near detector for the short-baseline neutrino (SBN) programme at Fermilab.

The next calendar year is a crucial time for the assembly of the SBND TPC. The components of the TPC are currently under construction, and will be arriving at Fermilab in the first months of 2018. This scholarship will enable me to be present at Fermilab to lead the detector quality assurance and quality control during assembly. I will be based at Fermilab during two key stages of the SBND TPC assembly: prior to the arrival of the components and during the initial assembly, and post attachment to the cryostat top.